

TECHNICAL DATA SHEET RILSAMID® ASR 13

POLYAMIDE 12 PELLET

RILSAMID® ASR 13 a polyamide 12 compound. This black reinforced grade is designed for injection molding & is used to produce automotive fittings & quick connectors, the incorporation of carbon fiber leading to a product with same rigidity as a 30% glass fiber reinforced grade & electrostatic discharge (ESD) performance for conductive parts.

Designation : ISO 16396 - PA12, CF15, M1G1HL, C16-080

DESIGNATION

PA12-CF15

MAIN APPLICATIONS

- Industry - Others
- Industry - Distribution
- Auto - Fluid Connectors
- Heavy Truck - Air Brake Connectors
- Extrusion - Technology Providers

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized
- Release agent

RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt volume flow rate (MVR), 235°C / 5 kg (455°F / 11 lb)	10 cm ³ /10min	ISO 1133
Shrinkage, Parallel (t+24h)	0.2 %	ISO 294-4
Shrinkage, Normal (t+24h)	0.5 %	ISO 294-4

MECHANICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Charpy unnotched impact strength, 23°C (73°F)	45 / 46 kJ/m ²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	47 / 48 kJ/m ²	ISO 179 1eU
Tensile modulus, 23°C (73°F), 1 mm/min	9600 / 9000 MPa	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 11 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	8 / 7 kJ/m ²	ISO 179 1eA
Flexural modulus, 23°C (73°F)	- / 7200 MPa	ISO 178

*DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

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THERMAL PROPERTIES

プロパティ	価値	テスト基準
Melting temperature, 10°C/min	178 °C	ISO 11357-1/-3
Thermal Degradation temperature, Under air at 10°C/min (1%_wt_Loss)	223 °C	ISO 11358-1
Thermal Degradation temperature, Under nitrogen at 10°C/min (1%_wt_Loss)	223 °C	ISO 11358-1

ELECTRICAL PROPERTIES

プロパティ	DRY / COND VALUE*	テスト基準
Surface resistivity, 23°C (73,4°F)	- / 100000 ohm/sq	IEC 62631-3-2

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COND: Conditionned.

OTHER PROPERTIES

プロパティ	価値	テスト基準
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.6 %	ISO 62
Water absorption, 23°C(73°F), immersion, equilibrium	1.5 %	ISO 62
Specific gravity, 23°C (73°F)	1.08 g/cm ³	ISO 1183-1

包装

This grade is delivered dried in sealed packaging ready to be processed. Available packaging:

- 25 kg / 55 lb bags
- 454 kg / 1000 lb rigid containers

賞味期限

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

PROCESSING CONDITIONS:

- 典型的な溶融温度 (最小 / 推奨 / 最大) - 射出成形: 250°C / 270°C / 290°C (480°F / 520°F / 555°F)
- 典型的な金型温度 - 射出成形: 40-90°C (105-195°F)
- Drying time and temperature: 80-90°C (175-195°F) / 4-6 hours

SPECIAL CHARACTERISTICS

- Electrostatic discharge (ESD)

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